

Smarter technology for all

Introducing ThinkSystem tools

ES51757B

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Lenovo

Prerequisites

Although there are no specific prerequisites for this course, you should have some knowledge of high performance computing (HPC) systems, be familiar with the general administration of a network cluster, and have problem determination and troubleshooting skills.

Objectives

After completing the course, you will be able to:

- List the **software tools** supported by ThinkSystem servers
- Describe the **key functions** of each **software tool**
- Describe the **procedures** used to **perform** common tasks such as **firmware updates**, **logging in** to software interfaces, and **saving service data logs**

ThinkSystem tools introduction

ThinkSystem management tools

Lenovo

Attention



This course was created based on tools applicable to ThinkSystem V1 and V2 servers. Some features may no longer be available for later generations of ThinkSystem servers.

Please refer to the follow on tools courses listed on GLOSSE Machines Reference pages for tools/features that are introduced for later generations of ThinkSystem servers.

ThinkSystem tools **overview**

ThinkSystem servers support a comprehensive set of **software tools** that can be used to perform the following management tasks:

- **Checking inventory**
- **Configuring systems**
- **Monitoring health status**
- **Problem determination and troubleshooting**
- **OS deployment**
- **Updating firmware or drivers**
- **Power management**
- **Remote control**



ThinkSystem tools highlights

Click the following tool names to see a quick introduction to the different ThinkSystem tools.

- [Lenovo XClarity Controller](#)
- [Lenovo XClarity Provisioning Manager](#)
- [Lenovo XClarity Administrator](#)
- [Lenovo XClarity Integrator](#)
- [Lenovo XClarity Orchestrator](#)
- [Lenovo XClarity Mobile](#)
- [Lenovo XClarity Essentials](#)
- [Lenovo XClarity Energy Manager](#)

Each tool will be introduced in more detail in the following sections of this course.

Management tool comparison

The table below summarizes each ThinkSystem **tool** and its **functional** capabilities. Note that common **management tasks** can be performed with **multiple tools**.

Function	Lenovo XClarity Controller (XCC)	Lenovo XClarity Provisioning Manager (LXPM)	Lenovo XClarity Administrator (LXCA)	Lenovo XClarity Mobile (LXCM)	Lenovo XClarity Integrator (LXCI)	Lenovo XClarity Essentials CLI (OneCLI)	Lenovo XClarity Essentials BoMC	Lenovo XClarity Essentials Update Xpress	Lenovo XClarity Energy Manager
Multiple system management			✓	✓	✓				
Operating system deployment	✓	✓	✓		✓		✓		
Firmware and driver updates	✓	✓	✓		✓	✓	✓	✓	
System configuration	✓	✓	✓	✓	✓	✓	✓		
Watchdog / Alerts	✓		✓	✓	✓				✓
Inventory listing	✓	✓	✓	✓	✓	✓	✓		
Service data collection	✓	✓	✓	✓	✓	✓	✓		
Power management	✓		✓	✓	✓	✓			✓
Remote control	✓		✓	✓	✓				